

# K50-106

ALUMINUM ELECTROLYTIC CAPACITOR

elecond-market@elcudm.ru

+7 (34147) 2-99-89

EVAYA.673541.063 TU



Polar fixed capacitors. Sealed. In insulated case with or without butt pin.  
Radial leaded with screw terminals.

## MAIN PARAMETERS

Name	Value
Rated voltage, V	63; 350; 400; 450
Rated capacitance, $\mu\text{F}$	3 300; 4 700; 6 800; 10 000; 100 000
Capacitance tolerance (25°C, 100 Hz), %	$\pm 20$
Maximum operating temperature $T_{env}$ , °C	+85
Minimal operating temperature $T_{env}$ , °C	-40

## CAPACITOR RATINGS

$U_R$ , V	63	350	400	450
$C_R$ , $\mu\text{F}$				
3 300			✓	
4 700			✓	✓
6 800			✓	
10 000		✓		
100 000	✓			

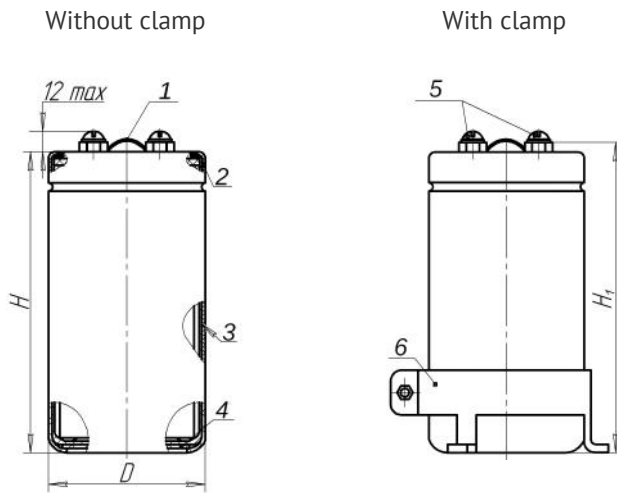
## CAPACITORS RELIABILITY

Operating modes and conditions			t , hours	λ, 1/hour, max
Mode type	Electrical mode	Environment temperature, °C		
Maximum permissible	$U_R$	85	2 000	$5 \times 10^{-4}$
Typical	$U_R, I_R, 85^\circ\text{C}, 100\text{Hz}$	85	12 000	$1 \times 10^{-4}$
	$U_R, 1.5 \times I_R, 85^\circ\text{C}, 100\text{Hz}$	40	250 000	$5 \times 10^{-6}$

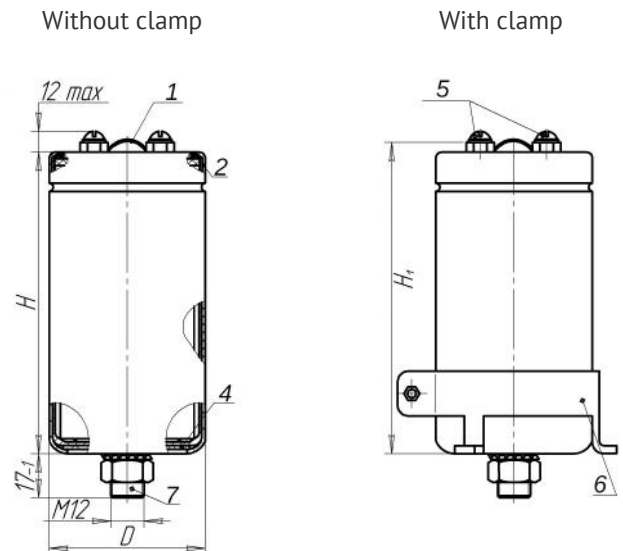
95% storability time of capacitors when stored under the conditions according to GOST 21493 must be 20 years.

## GENERAL VIEW DRAWING

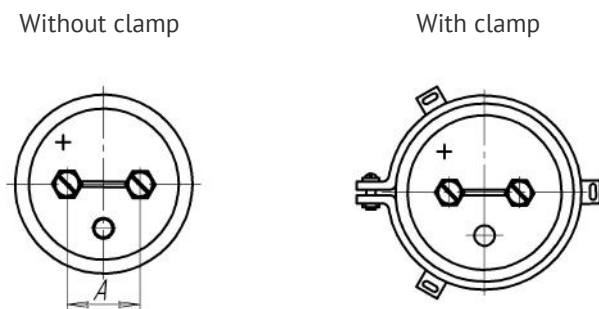
### Variant A



### Variant B



### Lid



- 1 - Connecting strip
- 2 - Insulating sleeve
- 3 - Enamel coating (for all-climate version)
- 4 - Insulating pad
- 5 - Screw
- 6 - Clamp
- 7 - Butt pin

## CAPACITORS OVERALL DIMENSIONS AND MASS

U <sub>R</sub> , V	C <sub>R</sub> , μF	D, mm	H, mm	H1, mm	A, mm	mass, g
63	100 000	76	146.0	151.8	32.0	1 600
350	10 000	76	155.0	160.8	32.0	1 800
400	3 300	65	105.7	112.2	28.5	840
400	4 700	76	105.7	111.5	32.0	1 190
400	6 800	76	143.2	149.0	32.0	1 630
450	4 700	65	143.2	149.7	28.5	1 200

## CAPACITOR ELECTRIC PARAMETERS VALUE

U <sub>R</sub> , V	C <sub>R</sub> , μF T=20°C, F=100Hz	tg δ, % T=20°C, F=120Hz	I <sub>LEAK</sub> , μA T=20°C, after 5 min.	Z, mOhm T=20°C, F=10kHz	ESR, mOhm T=20°C, F=100Hz	I <sub>R</sub> , A T=85°C, F=100Hz
63	100 000	70	22 900	15	11	34.3
350	10 000	20	7 306	13	17	23
400	3 300	20	3 192	24	23	11
400	4 700	20	4 310	17	16	14
400	6 800	20	5 898	14	11	19
450	4 700	20	4 763	30	25	14

Ripple current effective value versus temperature and frequency can be found from the formula  $I_{RIPPLE, A} = I_{R(100Hz, 85°C)} \times K_{RT} \times K_{RF}$

### K<sub>RT</sub> - I<sub>R</sub> CORRECTION FACTOR VERSUS TEMPERATURE

T <sub>env</sub> , °C	40	55	60	70	85
K <sub>RT</sub>	2.75	2.38	2.23	1.85	1

### K<sub>RF</sub> - I<sub>R</sub> CORRECTION FACTOR VERSUS FREQUENCY

F, Hz	50	100	300	1 000	≥10 000
K <sub>RF</sub>	0.85	1	1.23	1.34	1.41

## CODED SYMBOL FOR CAPACITORS (IDENTIFICATION NUMBER (PARTNUMBER))

CAPACITOR K50-106B - 400V - 3300MF ( $\pm 20$ )% - I - EVAYA.673541.063TU  
(K50-106B-Y-338M-D65H105Z7-PET-063)

1	1.1	2	3	4	5	6	7	8
Capacitor K50-106	b	400V	3300 $\mu$ F	$\pm 20\%$	D=65mm	H=105.7mm	PET	EVAYA.673541.063 TU
<b>K50-106</b>	<b>B</b>	<b>Y</b>	<b>338</b>	<b>M</b>	<b>D65</b>	<b>H105Z7</b>	<b>PET</b>	<b>063</b>

### 1. K50-106 - capacitor K50-106

#### 1.1 Design variant

<b>Code</b>	The presence of a hairpin
<b>A</b>	Without end pin
<b>B</b>	With end pin

### 2. Rated voltage code

<b>Code</b>	Y	U
<b>U<sub>R</sub>, V</b>	400	450

### 3. Nominal capacity code

<b>Code</b>	338	478	688
<b>C<sub>R</sub>, <math>\mu</math>F</b>	3300	4700	6800

### 4. Capacity approval code

<b>Code</b>	M
<b>Admittance, %</b>	$\pm 20$

### 5. Condenser diameter code

<b>Code</b>	D65	D76
<b>Diameter, mm</b>	65	76

## 6. Condenser Height Code

<b>Code</b>	H105Z7	H143Z2
<b>Height, mm</b>	105.7	143.2

## 7. Isolation code

<b>Code</b>	<b>Decryption</b>
<b>PET</b>	Isolated, packed in a box for manual assembly of equipment

## 8. Code TU

<b>Code</b>	<b>TU designation</b>
<b>063</b>	EVAYA.673541.063 TU

## EXAMPLE OF REFERENCE DESIGNATION FOR ORDERING

CAPACITOR K50-106a – 400V – 3 300 $\mu$ F  $\pm$ 20% – I EVAYA.673541.063 TU

CAPACITOR K50-106b – 400V – 3 300 $\mu$ F  $\pm$ 20% – I EVAYA.673541.063 TU